

# इंटरनेट

# मानक

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Mazdoor Kisan Shakti Sangathan

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“पुराने को छोड़ नये के तरफ”

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“Step Out From the Old to the New”

IS 5008-1 (1987): Data Sheet for Industrial Towing Trucks,  
Part 1: I.C. Engine Powered [TED 23: Industrial Trucks]



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“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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*Indian Standard***DATA SHEET FOR INDUSTRIAL TOWING TRUCKS****PART 1 I.C. ENGINE POWERED***( First Revision )*

**1. Scope** — Lays down the data required for the selection of I.C. engine powered industrial towing trucks.

**2. Terminology** — For the purpose of this standard, the following definitions shall apply.

**2.1 Industrial Towing Trucks** — A self-propelled industrial truck with solid or pneumatic tyres, with three or more wheels, with front or rear drive wheels, intended for towing or shunting one or several non-powered trucks or trailers inside or outside buildings and occasionally on public roads.

**2.2 Drawbar Pull** — The drawbar pull measured on a smooth, dry and horizontal concrete surface, with a horizontal towbar in the longitudinal axis of the vehicle, after progressive acceleration, and with a driver weighing 70 kg in the case of sit-on or stand-on tractor.

**2.2.1** The drawbar pull shall be given for a tractor equipped with solid tyres or with pneumatic tyres inflated to the pressure specified by the tractor manufacturer.

**3. Data Sheet****3.1 Application and Site Data** — ( To be furnished by the users )

- a) Hours per shift.....h
- b) Shifts per day.....
- c) Days per week.....
- d) Temperature : *Max*.....°C; *Min*.....°C
- e) Altitude.....m, above mean sea level
- f) Relative humidity, *Max* at... ..°C... ..%

**3.2 Engine**

- a) Make, model.....
- b) Type .....
- c) Cooling system .....Air Cooled/Water Cooled
- d) Gross power..... kW at.....rpm
- e) Fly wheel power.....kW at.....rpm
- f) Maximum torque.....Nm at.....rpm
- g) No. of cylinders.....
- h) Bore.....mm
- j) Displacement.....
- k) Type of fuel used.....
- m) Type of fuel pump .....
- n) Oil specification .....

**3.3 Transmission**

- a) Model.....
- b) Type .....
- c) Converter/clutch .....

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- d) Speed in kmph ( Unladen )
  - 1) Forward speed.....
  - 2) Reverse speed .....
- e) Neutral start provision..... Yes/No
- f) Controls.....Single/Multi-lever

.4 Maximum Drawbar Pull.....N

3.4.1 Sustained drawbar pull.....N

3.4.2 Height of coupling.....mm

.5 Braking

- a) Type (drum/disc, wet/dry, hydraulic).....
- b) Actuating system (hydraulic/mechanical).....
- c) Operation of brake ( hand operated/foot operated ).....
- d) No. of levers/pedals.....

.6 Steering

- a) Type ( mechanical/power assisted ).....
- b) Power pump.....
- c) Actuator details.....

.7 Electrical System

- a) Starting, Type..... Voltage.....V
- b) Battery, Type.....Capacity.....Ah
- c) Lighting.....
- d) Charging: Type ( Alternate/Dynamo ).....

.8 Tyre

TYPE OF TYRE			
Solid Rubber	Pneumatic Shaped Resi.	Pneumatic	Any Other Type
a) No. of wheels ( driving )			
b) No. of wheels ( steering )			
c) Tyre size			
d) Rim size			

- a) No. of wheels ( driving )
- b) No. of wheels ( steering )
- c) Tyre size
- d) Rim size

3.9 Oil

	Oil Capacity ( litre )	Type of Oil
a) Fuel tank	.....	.....
b) Engine crank case	.....	.....
c) Final drive	.....	.....
d) Torque converter	.....	.....
e) Transmission	.....	.....
f) Steering	.....	.....
g) Differential	.....	.....

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**TO**  
**IS : 5008 ( Part 1 ) - 1987   DATA SHEET FOR INDUSTRIAL**  
**TOWING TRUCKS**

**PART 1   I. C. ENGINE POWERED**

**( First Revision )**

( Page 2, clause 3.8 ) — Substitute the following for the existing clause:

**3.8 Tyre**

NUMBER/SIZE	TYPE OF TYRE			
	Solid Rubber	Pneumatic Shaped Resilient	Pneumatic	Any Other Type
No. of wheels ( driving )				
No. of wheels ( steering )				
Tyre size				
Rim size				

**3.10 Dimensions**

- a) Overall length.....mm
- b) Overall width.....mm
- c) Height.....mm
- d) Minimum ground clearance.....mm
- e) Wheel base .....
- f) Wheel track
  - 1) Front.....
  - 2) Rear.....
- g) Turning radius .....
- h) Angle of approach and departure.....

**3.11 Mass of Base Machine ( Without any Attachment ).....kgs**

**3.12 Standard Equipment.....**

**3.13 Optional Attachments.....**

**3.14 Other Attachments.....**

**3.15 Gauges and Indicators .....**

**3.16 Truck Provided with Overhead Canopy..... Yes/No**

**EXPLANATORY NOTE**

This standard was first published in 1969. This revision includes some additional information which may be used by the manufacturer and purchaser alike for giving details of the equipment to be manufactured by the manufacturer or required by the purchaser.

This standard is being issued in the following two parts:

Part 1 I.C. engine powered

Part 2 Electric engine powered